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[PS] Engineering Excellence: DEC OSF/1 Symmetric Multiprocessing

JA Hall - 1994 - users.cs.cf.ac.uk

... Under semaphores (also known as "Mutexes") are "Fast Mutex", "Recursive Mutex" and "Blocking Mutex". Each one of these locks has its place inside the kernel. 3.2.2.1. ... 3.2.2.3. Fast Mutex The Fast Mutex allows a single thread to lock the data structure. ...

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P Hadjidoukas, V Barekas... - Proc. of the Twelth ..., 2000 - Citeseer

... On the other hand, once a Fast Mutex has been acquired, the IRQL is raised at APC LEVEL, thus the APCs to the thread are blocked. If the thread fails to acquire the Fast Mutex, it is put into a wait state, releasing the processor. ...

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Towards extremely fast context switching in a block-multithreaded processor

W Grunewald... - euromicro, 1996 - computer.org

... The units execute different threads of control. Therefore they access different activation frames and thus different register sets. A fast context switch is realized by simply switching to another register set. ... Each mutex variable exists only once. ...

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S Rostedt... - Proceedings of the Linux Symposium, 2007 - kernel.org

... applications. Linux implements a user mutex that can create, acquire, and release the **mutex** lock completely in user space. This type of **mutex** is known as a futex (**fast** mutex) [1]. The futex only enters the kernel on contention. RT ...

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Fast mutual exclusion for uniprocessors

BN Bershad, DD Redell... - Proceedings of the fifth ..., 1992 - portal.acm.org

Page 1. Fast Mutual Exclusion for Uniprocessors Brian N. Bershad ... Mutual ex- clusion mechanisms such as P, V [Dijkstra 68a] and ac- qutre-mutex, re~ease-mut ex [Birrell 91] are implemented using lower-level operations such as Test-And-Set that ...

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A Schinner - Granular Matter, 1999 - Springer

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Read/write based fast-path transformation for FCFS mutual exclusion

P Jayanti, S Petrovic... - SOFSEM 2005: Theory and Practice of ..., 2005 - Springer ... The winner q of this competition proceeds to compete with the fast-path process r through the 2-mutex algorithm. ... When successful, p enters another competition, where it competes with the fast-path process via the 2-mutex algorithm (Line 13). ...

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R Geiß, G Batz, D Grund, S Hack... - Graph Transformations, 2006 - Springer

- ... GrGen: A **Fast** SPO-Based Graph Rewriting Tool 395 AGG VarróDB PROGRES Fujaba GrGen(PSQL) GrGen(SP) size time 1ms 10ms 100ms 1s 1min 1h 100 250 500 750 1000 Fig.
- 4. Runtime of STS mutex benchmark (multiplicity optimizations off, parameter passing off ...

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[PDF] Multi Thread programming

A Negri, DA Scannicchio, F Touchard... - 2001 - atlserver.pv.infn.it

... state. pthread_mutex_trylock behaves identically to pthread_mutex_lock, except that it does not block the calling thread if the **mutex** is already locked by another thread (or by the calling thread in the case of a **fast mutex**). Instead ...

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P Gutmann - Proceedings of the Seventh USENIX Security ..., 1998 - usenix.org

... To do this we use two methods, a **fast** randomness poll which executes very quickly and gathers as much random (or apparently random) information as quickly as possible, and a slow poll which can take a lot longer than the **fast** poll but which performs a more in-depth search ...

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